

Patent Abstracts of Japan

PUBLICATION NUMBER : 01011141
PUBLICATION DATE : 13-01-89

APPLICATION DATE : 03-07-87
APPLICATION NUMBER : 62166603

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INT.CL. : C08J 9/28 B29C 67/20

TITLE : PRODUCTION OF POROUS ARTICLE OF HYDROPHILIC POLYMER

ABSTRACT : PURPOSE: To produce a porous article of a hydrophilic polymer having micropores adjustable by the amount of a surfactant and directed parallel to the direction of the thickness, by adding a surfactant to an aqueous liquid of a hydrophilic polymer and freeze-drying the mixture.

CONSTITUTION: (A) An aqueous solution, a uniform aqueous suspension or their mixture of a hydrophilic polymer (e.g. casein, cellulose or polyvinyl alcohol) having a concentration of 0.05-50%, preferably 0.1-10% is added with (B) a surfactant (which does not cause coagulation reaction with the component A) having an HLB value of preferably 2-20 at a ratio of 0.1-100%, preferably 0.5-50% based on the dry weight of the component A. The mixture is poured into a tray in an amount to attain a product thickness of 5-100mm, preferably 20-70mm, completely frozen and then dried to obtain a porous article of hydrophilic polymer having pores with uniform pore diameter and directed parallel to the direction of the thickness of the product.

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